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DENTAL SURFACE COATING METHOD

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Abstract: PURPOSE: To improve durability, gloss of the surface and the appreciation of the beautiful of the crown or the like by applying one or more kind chemical compounds selected from alkali metal salt, oxides, hydroxides and metal alkoxides of one or more metals selected from a group comprising Si, Al, Ti, Zr, Mg and Ce to the surface of an artificial tooth, and then heat-treating same.

CONSTITUTION: As used chemical compounds, cited are alkali metal salt such as alkali silicate, and its hydrate, oxides such as silica and the like, hydroxides such as titanium hydroxide and the like, various sol and gel of oxide and hydroxide, and various metal alkoxides such as methoxides, butoxides of metals, i.e., Si, Al, Ti, Zr, Mg, Ce. One, two or more kinds are selected from the above, and formed into a solution or suspension with a suitable solvent such as water, methanol or the like. The solution or suspension is applied to the surface of the ceramic or metallic crown by brushing or spraying method. After such application, when the crown is subjected to heat treatment at 100-1000°C by a heating device such as an electric furnace, a strong coat is formed on the surface of the base material.

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Patents Citing this One: No patents have cited this patent.

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